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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/719,399	11/21/2003	Christopher T. Maxwell	TI-36943	2566	
23494	7590 02/14/2006		EX		
TEXAS INSTRUMENTS INCORPORATED			LAM, TUAN THIEU		
P O BOX 655474, M/S 3999 DALLAS, TX 75265			ART UNIT	PAPER NUMBER	
		2816			
			DATE MAILED: 02/14/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)					
		10/719,399	MAXWELL, CHRISTOPHER T.					
		Examiner	Art Unit					
		Tuan T. Lam	2816					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) 又	Responsive to communication(s) filed on 04 Ja	nuary 2006						
	This action is FINAL . 2b) ☐ This action is non-final.							
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🛛	4) Claim(s) <u>1-13,15 and 16</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	☐ Claim(s) is/are allowed.							
	⊠ Claim(s) <u>1-13,15 and 16</u> is/are rejected.							
	Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>03 February 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
_	a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
		·						
Attachment	(s)							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	· 4) Interview Summary (PTO-413)					
	e	152)						
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa	nent Application (PTC	r-102)				

DETAILED ACTION

This is a response to the amendment filed 1/4/2006. Claims 1-13 and 15-16 are pending and are under examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-13 and 15-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Papaliolios (USP 6,236,245).

Figure 5 shows a power efficiency control circuit comprising a plurality of multiplexers (530, 570) having a common input node (505), an upper output node (output of MUX 530) and a lower output node (output of MUX 570), wherein the plurality of MUXs are configured to generate output signals at UOP and LOP in response to only an input signal (505) at the common input node such that during an input signal transition at the input node, a control electrode for the UOP and the LOP are driven toward opposite voltage supplies so that the UOP and the LOP are never on simultaneously (during the transition of the input signal 505, the output signals of the multiplexers 530 and 570 are on opposite level (abstract) thus never on simultaneously and responsive only to the input signal 505 which performs the selecting function of the multiplexers) as called for in claims 1-2, 7, 10, 11 and 13.

Regarding claims 3 and 8, the delay elements 420, 460 and multiplexers 430 and 3470 forms a predriver (column 2, lines 66-67).

Regarding claims 4 and 15-16, the delay elements 420, 460 and multiplexers 430 and 3470 forms a predriver of CMOS technology.

Regarding claims 5 and 9, figure 5 shows an output driver comprising a PMOS and a NMOS transistor.

Regarding claims 6 and 12, the PMOS transistor of the output driver 599 is off first, prior to the NMOS transistor being on during the transition of the input signal 505.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P. CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan T. Lam Primary Examiner Page 4

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2/9/2006